



# UNITED STATES PATENT AND TRADEMARK OFFICE

ml

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,368	04/16/2004	Seong-Hak Moon	P-0672	8098

34610 7590 04/09/2007  
KED & ASSOCIATES, LLP  
P.O. Box 221200  
Chantilly, VA 20153-1200

EXAMINER

LEWIS, DAVID LEE

ART UNIT PAPER NUMBER

2629

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/09/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/825,368

Applicant(s)

MOON, SEONG-HAK

Examiner

David L. Lewis

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. **Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kinoshita et al. ((6246385)).**

**As in claim 1, Kinoshita et al. teaches of a driving device of a flat display panel, figure 1,**

**comprising: a scan driving unit for applying scan pulses to both ends of each scan line of a flat display panel, figures 1 and 3, column 25 lines 1-40.**

**As in claim 2, Kinoshita et al. teaches of further comprising a controller for outputting a control signal for controlling the scan driving unit, figure 1 item 18.**

**As in claim 3, Kinoshita et al. teaches of wherein the controller outputs a control signal for simultaneously applying the scan pulses, figure 1 item 18, figure 3(A).**

Art Unit: 2629

**As in claim 4, Kinoshita et al. teaches of wherein the scan pulses have the same voltage, phase and pulse width, figure 3(A).**

**As in claim 5, Kinoshita et al. teaches of a driving device of a flat display panel, figure 1,**

**comprising: a first scan driving unit for applying scan pulses to one side of each scan line of a flat display pane, figure 1 item 17A, column 25 lines 1-40;**

**and a second scan driving unit for applying the scan pulses to the other side of each scan line, figure 1 item 17B, column 25 lines 1-40.**

**As in claim 6, Kinoshita et al. teaches of further comprising a controller for outputting a control signal to control the scan driving unit, figure 1 item 18.**

**As in claim 7, Kinoshita et al. teaches of wherein the controller outputs a control signal to simultaneously apply the scan pulses, column 25 lines 1-40.**

**As in claim 8, Kinoshita et al. teaches of wherein the scan pulses have the same voltage, phase and pulse width, figure 3(A), column 25 lines 1-40.**

**As in claim 9, Kinoshita et al. teaches of further comprising a data driver for applying data pulses to data lines of the flat display panel, figure 1 item 15/16.**

**As in claim 10, Kinoshita et al. teaches of wherein the data driving unit, figure 1 and 49, column 1 lines 50-60, column 3 lines 45-55,**

comprises: a first data driving unit for applying data pulses to the odd number of times of data lines among data electrodes, **figure 1 item 15;**

and a second data driving unit for applying data pulses to the even number of times of data lines of the data electrodes, **figure 1 item 16.**

**As in claim 11, Kinoshita et al. teaches of a driving method of a flat display panel, figure 1 and 3,**

comprising: applying scan pulses to both ends of each scan line of a flat display panel, **figure 3(A), column 25 lines 1-40.**

**As in claim 12, Kinoshita et al. teaches of further comprising outputting a control signal to simultaneously apply the scan pulses, column 25 lines 1-40.**

**As in claim 13, Kinoshita et al. teaches of wherein the scan pulses have the same voltage, phase and pulse width, figure 3(A), column 25 lines 1-40.**

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. **Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term “odd number of times of data lines” and “even number of times of data lines” seems confusing. The Examiner wonders if it is meant to read “the odd number of data lines” and the “even number of data lines”?? Clarification is needed on these limitations.**

***Specification***

3. The abstract of the disclosure is objected to because of error in the second sentence containing the letter “o”, before the word both. Correction is required. See MPEP § 608.01(b).

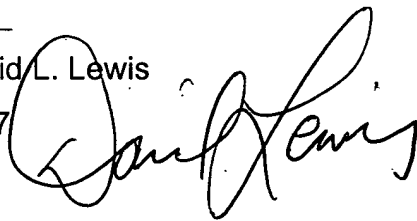
***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 6894667, 7119767, 7046222.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(571) 272-7673**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on **(571) 272-7681**. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571)-273-8300.
6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

---

Examiner: David L. Lewis  
March 27, 2007

A handwritten signature in black ink, appearing to read 'David L. Lewis', is written over the printed name and date.